Eaton 191344

Catalog Number: 191344

NZMH3-VX400-S1. NZM3 PXR20 circuit breaker, 400A, 3p, screw terminal

General specifications

Product Name

Eaton Moeller series NZM molded case 191344

circuit breaker electronic

Catalog Number

Model Code

NZMH3-VX400-S1

Product Length/Depth

4015081918560 166 mm

Product Height Product Width 275 mm 140 mm

Product Weight Compliances RoHS conform 6.34 kg

Certifications

IEC

EAN



Photo is representative



defaultTaxonomyAttributeLabel

Type

Circuit breaker

Special features

Lifespan, mechanical: of which max. 50 % trip by shunt/undervoltage release R.m.s. value measurement

and "thermal memory"

Adjustable time delay setting to overcome current peaks tr

at 6 x Ir also infinity (without

overload releases)

Adjustable delay time tsd

Rated current = rated

uninterrupted current: 400 A Terminal capacity hint: Up to 240 mm² can be connected

depending on the cable manufacturer.

Application

Use in unearthed supply systems at 690 V

Amperage Rating

400 A

Voltage rating

1000 V - 1000 V

Circuit breaker frame type

NZM3

Features

Motor drive optional

Protection unit

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the

Resources

Brochures

eaton-digital-nzm-brochure-br 013003 en-en-us.pdf eaton-feerum-the-whole-grain-solution-success-story-en-us.pdf

Catalogs

eaton-digital-nzm-catalog-ca013003en-en-us.pdf

Characteristic curve

eaton-circuit-breaker-nzm-mccb-characteristic-curve-016.eps eaton-circuit-breaker-nzm-mccb-characteristic-curve-012.eps

Drawings

eaton-circuit-breaker-nzm-mccb-dimensions-020.eps
eaton-circuit-breaker-switch-nzm-mccb-dimensions-016.eps

Installation instructions

eaton-circuit-breaker-basic-unit-bg3-il012100zu.pdf

Installation videos

Introduction of the new digital circuit breaker NZM

The new digital NZM Range

mCAD model

DA-CD-nzm3_3p

DA-CS-nzm3_3p

Technical data sheets

eaton-nzm-technical-information-sheet

switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. Pollution degree 3 Mounting Method Fixed Built-in device fixed built-in technique Equipment heat dissipation, current-dependent 48 W Utilization category Ambient operating temperature - max 70 °C Ambient operating temperature - min -25 °C Ambient storage temperature - max 70 °C Ambient storage temperature - min 40 °C Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally open contacts) 0 Degree of protection IP20 Electrical connection type of main circuit Screw connection Lifespan, mechanical 15000 operations Overvoltage category Ш

Number of poles

Three-pole

Terminal capacity (copper strip)

Max. 10 segments of 24 mm x 1 mm + 5 segments of 24 mm x 1 mm

Max. 10 segments of 32 mm x 1 mm + 5 segments of 32 mm x 1 mm at rear-side connection (punched)

Min. 6 segments of 16 mm x 0.8 mm at box terminal

Max. 8 segments of 24 mm x 1 mm (2x) at box terminal

10 segments of 50 mm x 1 mm (2x) at rear-side width extension

Min. 6 segments of 16 mm x 0.8 mm at rear-side connection (punched)

Lifespan, electrical

1000 operations at 1000 V AC-1

Functions

Systems, cable, selectivity and generator protection

Position of connection for main current circuit

Front side

Rated operational current for specified heat dissipation (In)

400 A

Release system

Electronic release

Rated short-time withstand current (t = 0.3 s)

3.3 kA

Rated short-time withstand current (t = 1 s)

3.3 kA

Short-circuit release delayed setting - max

4000 A

Short-circuit release delayed setting - min

320 A

Short-circuit release non-delayed setting - max

4800 A

Short-circuit release non-delayed setting - min

800 A

Terminal capacity (control cable)

0.75 mm² - 2.5 mm² (1x)

0.75 mm² - 1.5 mm² (2x)

Terminal capacity (copper busbar)

Max. 10 mm x 50 mm (2x) at rear-side width extension

M10 at rear-side screw connection

Min. 20 mm x 5 mm direct at switch rear-side connection

Max. 30 mm x 10 mm + 30 mm x 5 mm direct at switch rear-side connection

Terminal capacity (copper solid conductor/cable)

16 mm² (2x) direct at switch rear-side connection

16 mm² (1x) at tunnel terminal

300 mm² (2x) at rear-side width extension

16 mm² (1x) direct at switch rear-side connection

16 mm² (2x) at box terminal

Terminal capacity (aluminum solid conductor/cable)

16 mm² (1x) at tunnel terminal

Terminal capacity (copper stranded conductor/cable)

35 mm² - 240 mm² (1x) at box terminal

16 mm² - 185 mm² (1x) at tunnel terminal

25 mm² - 240 mm² (1x) direct at switch rear-side connection

25 mm² - 240 mm² (2x) direct at switch rear-side connection

25 mm² - 120 mm² (2x) at box terminal

Terminal capacity (aluminum stranded conductor/cable)

50 mm² - 240 mm² (1x) at 2-hole tunnel terminal

50 mm² - 240 mm² (2x) at 2-hole tunnel terminal

25 mm² - 185 mm² (1x) at tunnel terminal

Handle type

Rocker lever

Short delay current setting (Isd) - max

10 A

Short delay current setting (Isd) - min

2 A

Instantaneous current setting (Ii) - max

12 A

Instantaneous current setting (li) - min

2 A

Number of operations per hour - max

60

Overload current setting (Ir) - max

400 A

Overload current setting (Ir) - min

160 Δ

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 1000 V, 50/60 Hz

10 kA

Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz 150 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz 150 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 130 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 525 V, 50/60 Hz 33 kA Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 690 V, 50/60 Hz 9 kA Rated short-circuit making capacity Icm at 1000 V, 50/60 Hz 17 kA Rated short-circuit making capacity Icm at 400/415 V, 50/60 Hz 330 kA Rated short-circuit making capacity Icm at 440 V, 50/60 Hz 286 kA Rated short-circuit making capacity Icm at 525 V, 50/60 Hz 143 kA Rated short-circuit making capacity Icm at 690 V, 50/60 Hz 70 kA Standard terminals Screw terminal Rated short-circuit making capacity Icm at 240 V, 50/60 Hz 330 kA Rated impulse withstand voltage (Uimp) at auxiliary contacts 6000 V Rated impulse withstand voltage (Uimp) at main contacts 8000 V Rated insulation voltage (Ui)

690 V AC



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